Appendix F

The QA/QC Procedures and Results

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	KE	Site No.:	AM1
Date of visit:	20-6-2005	Hour of Visit:	11:00
Staff name:	WL MAK	HVAS S/N:	2198
Used filter paper no.:	5533	New filter paper no.:	5535
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 273 + 30.9 / 303.9 K Pressure, P_a = 1004 mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to Q_{STD} = 40 ft^3/min. (inch H_2O)
1534(09/2004)	$\Delta H_a = 18.33(T_a/P_a)$ = 5.55

Manometer reading before calibration: 5.50
Adjustment of flow controller (Y/N): N
Manometer reading after calibration: 5.50

Note: Tolerance Limit of HVAS flow: ± 1.0 ft^3/min. Corresponding limits for manometer : ± 0.2 inch H_2O

III. General Conditions of HVAS

IV. Remarks

File Name: C:\monitor\ambient\hvprical\HVASCAL04.doc

HIGH VOLUME AIR SAMPLER
SITE VISIT LOG SHEET

Site Name:	E.G.	Site No.:	AM2.
Date of visit:	20-6-05	Hour of Visit:	10:30
Staff name:	W.L. MAK, H.K. TSANG	HVAS S/N:	2195
Used filter paper no.:	1534	New filter paper no.:	1536
Type of filter:	Glass-fibre		

I. Ambient Conditions

Temperature, T_a = 28.9+273 = 301.9 K Pressure, P_a = 1008 mb

II. Correction of manometer reading

Calibration orifice No.	Manometer reading at site conditions corresponds to Q_{STD} = 40 ft^3/min. (inch H_2O)
1534(09/2004)	$\Delta H_a = 18.33(T_a/P_a)$ = 5.49

Manometer reading before calibration: 5.7
Adjustment of flow controller (Y/N): Y
Manometer reading after calibration: 5.5

Note: Tolerance Limit of HVAS flow: ± 1.0 ft^3/min. Corresponding limits for manometer : ± 0.2 inch H_2O

III. General Conditions of HVAS

IV. Remarks

File Name: C:\monitor\ambient\hvprical\HVASCAL04.doc

PARTISOL TSP SAMPLER
SITE VISIT LOG SHEET

Site Name ASH LA GOON Site Number AM 3

Date of Visit 17-6-2005 Hour of Visit 1320

Staff Name H K TSANG / W L MAK Partisol S/N: 2000 B 20755 C 410

Used Filter No.: PC 60 New Filter No.: PC 62

Ambient temperature: 29°C Ambient pressure: 1008

I. General Services

1. Replace control unit Large In-line Filter X
2. Clean the sample inlet head ✓
3. Clean sample tube ✓
4. Clean / Replace pump head X
5. Clean / Replace piston X

II. Operational Audits (3 months interval as recommended by manufacturer)

1. Temperature Check (Ambient temperature ± 2°C)

28.5 °C Before Calibration: Y / (N) 28.5 °C After

2. Pressure Check (Ambient pressure ± 20 mbar)(factor = 0.000987)

(0.998)
1.008 mbar Before Calibration: Y / (N) 1009 mbar After

3. Flow Check (16.7± 1.1 litre/min)

16.95 cc/min Before Calibration: Y (N) 16.9 cc/min

III. Remarks

New Partisol Install

MINI VOLUME AIR SAMPLER

SITE VISIT LOG SHEET

Site Name: TY Site No.: AM4

Date of visit: 20-6-05 Hour of Visit: 11:00

Staff name: H.K. TSANG MINIVOL S/N: 3393

Used filter paper no.: MH 47 New filter paper no.: MH 49

Type of filter: ~~Cellulose~~ / Glass-fibre

(Delete as appropriate)

I. Calibration is performed by using Drycal DC-2 Flow Calibrator

5 Sl/min set point is recommended

5.00 Before 5.00 After

II. General Service of Mini Vol Air Sampler

1. Clean Rotameter: ✓
2. Clean / replace Pump Valves: ✗
3. Clean / replace Pump Diaphragms: ✗
4. Clean Impaction Inlet: ✓
5. Replace Timer Battery Every 6 months: ✗
6. Replace Inlet Filter: ✓

III. Remarks

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THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION EXTENSION
TEOM 1400A CONTINUOUS DUST MONITOR
DATA QUALITY ASSURANCE LOG SHEET

Month : June Year : 2005

Reservoir (AM1)					
Date	Frequency (Hz) (230 – 260)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
6/6/2005	257.34	0.042	4	1.00	15.68
12/6/2005	257.14	0.042	4	1.00	15.68
18/6/2005	257.09	0.043	4	1.00	15.68
26/6/2005*	256.93	0.038	4	1.00	15.68
30/6/2005	257.07	0.041	4	1.00	15.68

East Gate (AM2)					
Date	Frequency (Hz) (230 – 250)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
6/6/2005	245.93	0.035	4	0.99	15.63
12/6/2005	245.71	0.031	4	1.00	15.63
18/6/2005	245.62	0.046	4	1.00	15.62
24/6/2005	245.82	0.025	4	0.99	15.63
30/6/2005	245.64	0.032	4	0.99	15.63

Ash Lagoon (AM3)					
Date	Frequency (Hz) (240 – 270)	Noise (< 0.1)	Operation Mode (Mode 4)	Main Flow (l/min) (0.94 – 1.06)	Aux. Flow (l/min) (14.67 – 16.67)
6/6/2005	247.31	0.050	4	1.00	15.67
12/6/2005	247.14	0.047	4	1.00	15.68
18/6/2005	248.42	0.039	4	1.00	15.65
24/6/2005	248.32	0.062	4	1.00	15.66
30/6/2005	248.22	0.038	4	1.00	15.69

Maintenance Record			
	Reservoir	East Gate	Ash Lagoon
TEOM Filter Exchange	✓	✓	✓
Clean TSP Inlet	✓	✓	✓
Replace flow in-line filter			
Pump Repair			
Leak Check			✓
Flow Audit	✓		✓
Flow Controller Calibration			✓
A/C filter cleaning	✓	✓	

Remarks:

* Missing data was due to power failure of 1-hr TEOM TSP sampler at Reservoir (AM1). Make-up 1-hr TSP sampling was conducted on 26-6-05.

Prepared by : Alex

Checked by : [signature]

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION EXTENSION
NOISE MONITORING STATION
SITE VISIT LOG SHEET

Location Ash Lagoon/~~Ching Lam*~~

Date 14-6-05 Time 10:30

Equipment Rion NA-27/~~B&K 2238F~~* Sound Level Meter

Serial Number ~~00111465/00111466~~/00111467/~~2343838/2356907*~~

Staff Attended W.L.MAK ; H.K.TSANG

1. Calibration

   Acoustic calibrator used Rion NC-74

   Calibration level before adjustment (dB(A)) 94.0

   Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

   a. ~~Sunny~~/fine/~~cloudy/showery/heavy rain*~~

   b. ~~Strong wind/breeze~~/calm*

3. Remark/Observation

Note: * - Please delete where inappropriate

THE HONGKONG ELECTRIC CO., LTD.
LAMMA POWER STATION EXTENSION
NOISE MONITORING STATION
SITE VISIT LOG SHEET

Location ~~Ash Lagoon~~/Ching Lam*

Date 20-6-2005 Time 14:20

Equipment ~~Rion NA-27~~/B&K 2238F* Sound Level Meter

Serial Number ~~00111465/00111466/00111467/2343838/~~2356907*

Staff Attended H.K. TSANG / W.L. MAK

1. Calibration

   Acoustic calibrator used Rion NC-74

   Calibration level before adjustment (dB(A)) 94.0

   Calibration level after adjustment (dB(A)) 94

2. Weather Conditions

   a. ~~Sunny/fine~~/cloudy/~~showery/heavy rain~~*

   b. ~~Strong wind~~/breeze/~~calm~~*

3. Remark/Observation

Note: * - Please delete where inappropriate

18/5/2004

Equipment Calibration Record for Jun 2005

Site: Civil works for 275kV Cable Route from Lamma Island to Cyberport

Noise Equipment Used: RION NL-31

Calibrator Used: RION NC-74

Measurement Location: N4 – Pak Kok Tsui No. 2

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
03/06/2005	94.0	94.0	Anthony Wong
07/06/2005	94.0	94.0	Anthony Wong
10/06/2005	94.0	94.0	Anthony Wong
14/06/2005	94.0	94.0	Anthony Wong
17/06/2005	94.0	94.0	Anthony Wong
21/06/2005	94.0	94.0	Anthony Wong
24/06/2005	94.0	94.0	Anthony Wong
28/06/2005	94.0	94.0	Anthony Wong
30/06/2005	94.0	94.0	Anthony Wong

Measurement Location: N5 – Pak Kok Tsui No. 8

Date	Calibration Level before Measurement (dB(A))	Calibration Level after Measurement (dB(A))	Calibrated by
03/06/2005	94.0	94.0	Anthony Wong
07/06/2005	94.0	94.0	Anthony Wong
10/06/2005	94.0	94.0	Anthony Wong
14/06/2005	94.0	94.0	Anthony Wong
17/06/2005	94.0	94.0	Anthony Wong
21/06/2005	94.0	94.0	Anthony Wong
24/06/2005	94.0	94.0	Anthony Wong
28/06/2005	94.0	94.0	Anthony Wong
30/06/2005	94.0	94.0	Anthony Wong

Note: Measurement accepted as valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.